



The R-7 Modulating Valve is commonly found on trucks and buses with dual air brake systems. The function of the R-7 is to modulate the spring brakes through application of the foot brake valve in the event of loss of rear axle service brake pressure. This action takes advantage of the driver's natural reaction to apply the foot brake valve in an emergency brake situation and eliminates the need to actuate dash mounted controls.

Spring brake pressure is limited to 90-95 PSI by the R-7. Normal parking functions are also controlled through the R-7.

For installation and maintenance, see Instruction and Service Data Sheet SD-03-86.

WEIGHT - 2.5 LBS.

VMRS. NO. 13-010-009

MAINTENANCE KIT FOR R-7

IS PC. NO. 283861.

DEVICE CODE IS 4504

SUB ASSY. AND DETAIL REFERENCE

R-7 MODULATING VALVE PC. NO.	FOR SERVICE OR REMFR. EXCH USE PC. NO.	CUSTOMER IDENTIFICATION	OUTER SPRING	INNER SPRING	SPRING BRAKE REL. PRESS
283036	283932	NONE	244718	235430	85 PSI
283932	283932	NONE	244718	235430	85 PSI
286195	286195	NONE	244718	235430	70 PSI
B101234	103081	FORD D8HS-2B431-AA	244718	235430	95 PSI
C102144	103081	FORD E2HT-2B431-AA	294278	294279	95 PSI
C103081	103081	NONE	294278	294279	95 PSI

B-OBSELETE SUPERSEDED BY 102144

C-SEE PARTIAL VIEW FOR DETAILS. OMIT ITEMS 1, 2 & 24

COMMON SERVICE PARTS

NO.	PC. NO.	QUAN.	DESCRIPTION	NO.	PC. NO.	QUAN.	DESCRIPTION
1	283091	1	Cover Complete	14	A	1	Piston O-Ring
2	247250	1	Spring Seat	15	A	1	Cover O-Ring
3	A	1	O-Ring	16	A	1	Inlet & Exh Valve Assy
4	247249	1	Balance Piston	17	A	1	Check Valve Spring
5	247248	1	Body	18	A	1	Check Valve
6	A	1	O-Ring	19	239949	1	Shuttle Guide
7	240345	1	Retaining Ring	20	A	1	Shuttle Valve
8	247246	1	Control Piston	21	A	1	Cap Nut O-Ring
9	247247	1	Cover	22	A	1	Retaining Ring
10	A	1	Diaphragm (Exhaust)	23	247255	1	Supply Adapter
11	240858	1	Exhaust Cover	24	247209	1	5/16 - 24 Cap Screw
12	A	1	Piston O-Ring	25	230576	1	1/4 Pipe Plug
13	A	1	O-Ring	26	242228	1	#10 Threadroll Screw

A-FURNISHED IN MAINTENANCE KIT PC. NO. 283861